

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A flexible foil which is moveable by ~~means of light~~, comprising a dye which is capable of changing shape when absorbing light of a predetermined wavelength, the dye being anisotropically oriented near at least one major surface of the foil and exhibiting, transverse to the foil, an asymmetric change in concentration and/or orientation, such that the foil moves when absorbing light of a predetermined wavelength by contraction along a first surface and expansion along a second surface.

2. (Currently Amended) A The flexible foil as claimed in claim 1 wherein the dye is capable of changing from a first shape to a second shape when absorbing the light of the predetermined

wavelength, and capable of changing from the second shape to the first shape by ~~means of~~ absorbing light of a different wavelength than the predetermined wavelength or by ~~means of~~ heat or combination thereof, rendering the foil reversibly moveable.

3. (Currently Amended) A The flexible foil as claimed in claim 2 wherein the dye is a photo-isomerizable dye.

4. (Currently Amended) A The flexible foil as claimed in claim 3 wherein the dye is an azo-benzene dye.

5. (Currently Amended) A The flexible foil as claimed in claim 1 wherein the dye is dispersed in a polymerized liquid crystal.

6. (Currently Amended) A The flexible foil as claimed in claim 1 further comprising a stack with layers having a concentration and/or an orientation of the dye which differs between different layers of the stack.

7. (Currently Amended) A-The flexible foil as claimed in claim 1 wherein the concentration and/or orientation of the dye changes gradually.

8. (Currently Amended) A-The flexible foil as claimed in claim 7 wherein the dye is splay oriented with a planar orientation near the at least one major surface of the foil and a homeotropic orientation near another major surface opposite the at least one major surface.

9. (Currently Amended) A-The flexible foil as claimed in claim 1 wherein the flexible foil is attached to a structure which is fixed relative to the movement of the foil.

10. (Currently Amended) A-The flexible foil as claimed in claim 9, wherein the flexible foil is a valve switchable between a closed and an open state.

11. (New) The flexible foil of claim 1, wherein absorption of

the light takes place across an entire thickness of the foil and lateral changes take place across the entire thickness.

12. (New) A flexible foil comprising a dye which is capable of changing shape when absorbing light of a predetermined wavelength, the dye being anisotropically oriented near at least one major surface of the foil and exhibiting, transverse to the foil, an asymmetric change in concentration and/or orientation, wherein absorption of the light takes place across an entire thickness of the foil and lateral changes take place across the entire thickness.

13. (New) The flexible foil of claim 12, wherein the foil moves when absorbing the light by contraction along a first surface and expansion along a second surface.

14. (New) The flexible foil of claim 12, wherein the dye is capable of changing from a first shape to a second shape when absorbing the light, and capable of changing from the second shape

to the first shape by means of light of a different wavelength than the predetermined wavelength or by means of heat or combination thereof, rendering the foil reversibly moveable.

15.(New) The flexible foil of claim 12, wherein the dye is a photo-isomerizable dye.

16.(New) The flexible foil of claim 12, wherein the dye is an azo-benzene dye.

17.(New) The flexible foil of claim 12, wherein the dye is dispersed in a polymerized liquid crystal.

18.(New) The flexible foil of claim 12, further comprising a stack with layers having a concentration and/or an orientation of the dye which differs between different layers of the stack.

19.(New) The flexible foil of claim 12, wherein the concentration and/or orientation of the dye changes gradually from

a first surface to a second surface of the foil.

20. (New) The flexible foil of claim 19, wherein the dye is splay oriented with a planar orientation near one major surface of the foil and a homeotropic orientation near another major surface opposite the one major surface.